

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. P	atent Application) I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail
Applicant:	Schliesman et al.	in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20234, on this date.
Serial No.	09/941,279) 10-12-01 frankling 10. 40.607
Filed:	August 27, 2001	F-CLASS.WCM Appr. February 20, 1998 Attorney for Applicant
For:	METHOD FOR MAKING A HIGH SOLIDS INTERACTIVE COATING COMPOSITION AND INK	POLIS POOR
Art Unit:	1714	

<u>INFORMATION DISCLOSURE STATEMENT</u>

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R.1.56, 1.97 and 1.98, Applicants through counsel herewith submit copies of the publications as set forth in the attached form PTO-1449 as follows:

U.S. PATENTS

DOCUMENT NO.	<u>INVENTOR</u>	ISSUE DATE
3,298,030	Lewis et al.	January 10, 1967
3,415,671	Rice	December 10, 1968
3,523,818	Blumenthal	August 11, 1970

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		October 20, 1970
		GAR 18 200
DOCUMENT NO.	INVENTOR	ISSUE DATE
3,535,202	Huang	October 20, 1970
3,615,549	Ohyama et al.	October 26, 1971
3,655,527	Curran et al.	April 11, 1972
3,715,219	Kurz et al.	February 6, 1973
3,759,744	Schliesman	September 18, 1973
3,889,270	Hoffmann et al.	June 10, 1975
3,966,572	Carder	June 29, 1976
4,102,845	Schröder et al.	July 25, 1978
4,151,666	Raphael et al.	May 1, 1979
4,168,165	Kato et al.	September 18, 1979
4,168,338	Kato et al.	September 18, 1979
4,266,016	Date et al.	May 5, 1981
4,330,605	Boston	May 18, 1982
4,371,582	Sugiyama et al.	February 1, 1983
4,425,405	Murakami et al.	January 10, 1984
4,440,827	Miyamoto et al.	April 3, 1984
4,446,174	Maekawa et al.	May 1, 1984
4,460,637	Miyamoto et al.	July 17, 1984
4,474,847	Schröder et al.	October 2, 1984

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		St Pa
DOCUMENT NO.	INVENTOR	ISSUE DATE & 200, October 2, 1984
4,474,850	Burwasser	October 2, 1984
4,474,859	Oshima et al.	October 2, 1984
4,478,910	Oshima et al.	October 23, 1984
4,490,434	Oshima et al.	December 25, 1984
4,542,059	Toganoh et al.	September 17, 1985
4,554,181	Cousin et al.	November 19, 1985
4,564,560	Tani et al.	January 14, 1986
4,576,867	Miyamoto	March 18, 1986
4,620,197	Miyamoto et al.	October 28, 1986
4,636,409	Arai et al.	January 13, 1987
4,642,654	Toganoh et al.	February 10, 1987
4,732,786	Patterson et al.	March 22, 1988
4,743,507	Franses et al.	May 10, 1988
4,758,461	Akiya et al.	July 19, 1988
4,780,356	Otouma et al.	October 25, 1988
4,792,487	Schubring et al.	December 20, 1988
4,877,678	Hasegawa et al.	October 31, 1989
4,877,686	Riou et al.	October 31, 1989
4,879,166	Misuda et al.	November 7, 1989

DOCUMENT NO.	INVENTOR	ISSUE DATE
4,892,787	Kruse et al.	January 9, 1990
4,900,620	Tokita et al.	February 13, 1990
4,902,568	Morohoshi	February 20, 1990
4,915,923	Ogawa et al.	April 10, 1990
4,931,810	Iwata et al.	June 5, 1990
5,013,603	Ogawa et al.	May 7, 1991
5,041,328	Akiya et al.	August 20, 1991
5,057,570	Miller et al.	October 15, 1991
5,081,470	Kurabayashi et al.	January 14, 1992
5,124,201	Kurabayashi et al.	June 23, 1992
5,180,624	Kojima et al.	January 19, 1993
5,213,873	Yasuda et al.	May 25, 1993
5,266,397	Ogawa et al.	November 30, 1993
5,270,103	Oliver et al.	December 14, 1993
5,279,885	Ohmori et al.	January 18, 1994
5,302,437	Idei et al.	April 12, 1994
5,314,747	Malhotra et al.	May 24, 1994
5,320,897	Kondo et al.	June 14, 1994
5397,619	Kuroyama et al.	March 14, 1995

DOCUMENT NO.	INVENTOR	ISSUE DATE
5,437,925	Macaulay et al.	August 1, 1995
5,459,502	Sakaki et al.	October 17, 1995
5,463,178	Suzuki et al.	October 31, 1995
5,472,757	Ogawa et al.	December 5, 1995
5,478,631	Kawano et al.	December 26, 1995
5,605,750	Romano et al.	February 25, 1997
5,660,622	Nikoloff	August 26, 1997
5,660,928	Stokes et al.	August 26, 1997
5,700,582	Sargeant et al.	December 23, 1997
5,702,804	Malhotra	December 30, 1997
5,709,976	Malhotra	January 20, 1998
5,725,946	Fukushima et al.	March 10, 1998
5,747,146	Kashiwazaki et al.	May 5, 1998
5,755,929	Kuroyama et al.	May 26, 1998
5,798,173	Momma et al.	August 25, 1998
5,846,647	Yoshino et al.	December 8, 1998
5,851,654	Yoshino et al.	December 22, 1998
5,856,001	Okumura et al.	January 5, 1999
5,856,023	Chen et al.	January 5, 1999

DOCUMENT NO.	INVENTOR	ISSUE DATE
5,863,648	Ohmura et al.	January 26, 1999
5,866,268	Sargeant et al.	February 2, 1999
5,869,177	Yoshino et al.	February 9, 1999
5,882,388	Adair et al.	March 16, 1999
5,882,396	Hiorns	March 16, 1999
5,882,754	Kuroyama et al.	March 16, 1999
5,882,755	Igarashi et al.	March 16, 1999
5,888,635	Yang et al.	March 30, 1999
5,897,961	Malhotra et al.	April 27, 1999
5,916,673	Fryberg et al.	June 29, 1999
5,928,765	Malhotra	July 27, 1999
5,928,787	Owatari et al.	July 27, 1999
5,928,988	Yamane et al.	July 27, 1999
5,942,335	Chen et al.	August 24, 1999
5,962,128	Kuroyama	October 5, 1999
5,965,244	Tang et al.	October 12, 1999
5,985,424	DeMatte et al.	November 16, 1999
6,010,790	Chen et al.	January 4, 2000
6,028,028	Nitta	February 22, 2000

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DOCUMENT NO ADEA NO.	INVENTOR	ISSUE DATE
6,037,050	Saito et al.	March 14, 2000
6,074,793	Camp et al.	June 13, 2000
6,165,606	Kasahara et al.	December 26, 2000

FOREIGN PATENT DOCUMENTS

DOCUMENT NO.	COUNTRY	PUBLICATION DATE
51-47340	Japan	December 14, 1976
52-74340	Japan	March 15, 1977
55-051583	Japan	April 15, 1980
56-148,583	Japan	November 18, 1981
56-148,586	Japan	November 18, 1981
57-082,085	Japan	May 22, 1982
57-107878	Japan	July 5, 1982
57-107,879	Japan	July 5, 1982
3,151,471	Germany	August 12, 1982
57-157,786	Japan	September 29, 1982
58-094491	Japan	June 4, 1983
JP 1160674 (Abstract only)	JP	June 23, 1989
EP 439,153 A	EPO	July 31, 1991
EP 493,100 A1	EPO	July 1, 1992

DOCUMENT NO.	COUNTRY	PUBLICATION DATE
WO 95/00340	PCT	January 5, 1995
JP 8072387 (Abstract only)	JР	March 19, 1996
00730976/EP 81 Exemplary Claims	EPO	September 11, 1996
EP 743,193 A1	EPO	November 20, 1996
JP 09272257 (Abstract only)	JР	October 21, 1997
EP 803,374 A2	EPO	October 29, 1997
EP 968,836 A2	EPO	January 5, 2000
EP 1,002,657 A1	EPO	May 24, 2000
EP 888,904 B1	EPO	March 21, 2001
GB 2,129,333 B	GB	November 19, 1986
GB 2,334,684 A	GB	September 1, 1999



OTHER PUBLICATIONS

- "The Chemistry of Silica Solubility, Polymerization, Colloid and Surface Properties, and Biochemistry; Chapter 5: *Silica Gels and Powders*." Ralph K. Iler., John Wiley & Sons; 5 (462-621) 1979.
- "Stickies and Pitch Pacification White Paper Grades; Kenite®; Celite®; Harborlite®; Technical Bulletin No. 105." World Minerals Inc.; 1980.
- "Hercon 70, 72, 75, and 78 Cationic Emulsions, The Next Generation of Alkaline Sizing Agents; *Hercules*." Hercules, Inc; December 1989.
- "Development of Amorphous Silica for Ink Jet Recording Paper." Masao Takahashi, Teiji Sato and Masahide Ogawa; Research and Development Division. Mizusawa Industrial Chemicals, Ltd.; April 23, 1990.
- "Lectrapel Anti-Static Agent; *Paper Chemicals Products & Services.*" Calgon Corporation, Water Management Division; December 1992.
- "Basoplast® 335 D." BASF Corporation; June 1994.
- "Chromaset™ 600 Surface Sizing Treatment; *Hercules*." Hercules, Inc.; November 1994.
- "Airvol® Polyvinyl Alcohol Typical Properties; Air Products and Chemicals." Air Products and Chemicals, Inc.; 1995.
- "Martifin OL/107." Believed published by Martinswerk GMBH; May 1995.
- "Polymer Chemicals Technical Bulletin; Air Products and Chemicals, Inc." Air Products and Chemicals, Inc.; 1996.
- "Silica Pigments for ink Jet Printablility." Michael C. Wilthiam. Presented at the 1996 TAPPI Coating Conference, Nashville, TN, May 21, 1996.
- "Polyox® Water-Soluble Resins." Believed published by Union Carbide Corp.; believed published circa 1995.



OTHER PUBLICATIONS

"Kirk-Othmer Encyclopedia of Chemical Technology; *Recycling, Oil to Silicon*." John Wiley & Sons; Fourth Edition; Volume 21; September 1992.

"Fluorescent Whitening Agents for Paper - CIBA-GEIGY Technical Bulletin", CIBA-GEIGY Corp., believed published circa 1995.

"Tinopal HST Liquid - CIBA-GEIGY Technical Bulletin", CIBA-GEIGY Corp., believed published circa 1995.

"Tinopal SCP Liquid - CIBA-GEIGY Technical Bulletin", CIBA-GEIGY Corp., believed published circa 1995.

"Paper Chemicals: MSA-150 Surface Size - Morton Water Based Polymers"; Morton Chemicals Corp., believed published circa 1995.

"Typical Chemical and Physical Properties of Silica Gel: *Davison Silica Gels*." Author and publisher are unknown; believed published circa 1995.

"UniQ-Print® 8000 Unique Printability Enhancer - Sequa Chemicals, Inc." Sequa Chemicals, Inc.; believed published circa 1995.

"Silica-Gel Coatings for Ink-Jet Media." D.M. Chapman, Ph.D. Grace Davison; believed published circa 1995.

"The Davison Family of Syloid® Silicas." Grace Davison Chemical Corp.; believed published circa 1995.

"Introduction to Silica Gel." Author and publisher are unknown; believed published circa 1995.

"Acronal® PR 8689 X", BASF Corp.; August 1995.

The inclusion of any reference herein shall not be considered an admission against interest in any way. For example, inclusion herein shall not be considered an admission that a reference is prior art to the present application.

Applicants respectfully request that the Examiner consider the above-listed

references in the examination of this application and list these references of record in the

application.

This IDS is being submitted within three months of the filing of the

Application. Accordingly, it is believed that no fee is due. The Commissioner is hereby

authorized to charge any additional fees that may be required in this application under 37

CFR §§1.16-1.17, or credit any overpayment, to Deposit Account No. 07-2069. A

duplicate copy of this sheet is attached.

Respectfully submitted,

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U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: 0329.65766

Serial No.: 09/941,279

INFORMATION DISCLOSURE CITATION DISCLOSURE CIT (Use several sheets if necessary)

Applicant: Schliesman et al.

Filing Date: August 27, 2001

Group: 1714

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	3,298,030	01/10/1967	Lewis et al.			
	3,415,671	12/10/1968	Rice			
	3,523,818	08/11/1970	Blumenthal			
	3,535,202	10/20/1970	Huang			
	3,615,549	10/26/1971	Ohyama et al.			
	3,655,527	04/11/1972	Curran et al.			
	3,715,219	02/06/1973	Kurz et al.			
	3,759,744	09/18/1973	Schliesman			
	3,889,270	06/10/1975	Hoffmann et al.			
	3,966,572	06/29/1976	Carder			
	4,102,845	07/25/1978	Schröder et al.			
	4,151,666	05/01/1979	Raphael et al.			
	4,168,165	09/18/1979	Kato et al.			
	4,168,338	09/18/1979	Kato et al.			
	4,266,016	05/05/1981	Date et al.			
	4,330,605	05/18/1982	Boston			-
		02/01/1983	Sugiyama et al.			
	4,425,405	01/10/1984	Murakami et al.	l- Y		
	4,440,827	004/03/1984	Miyamoto et al.			
	4,446,174	05/01/1984	Maekawa et al.			
	4,460,637	07/17/1984	Miyamoto et al.			
	4,474,847	10/02/1984	Schröder et al.			
	4,474,850	10/02/1984	Burwasser			
	4,474,859	10/02/1984	Oshima et al.			
	4,478,910	10/23/1984	Oshima et al.			
	4,490,434	12/25/1984	Oshima et al.			
	4,542,059	09/17/1985	Toganoh et al.			
17	4,554,181	11/19/1985	Cousin et al.	1		
	4,564,560	01/14/1986	Tani et al.			
	4,576,867	03/18/1986	Miyamoto			
	4,620,197	10/28/1986	Miyamoto et al.			
	4,636,409	01/13/1987	Arai et al.			
	4,642,654	02/10/1987	Toganoh et al.			
		03/22/1989	Patterson et al.			
		05/10/1988	Franses et al.			
	4,758,461	07/19/1988	Akiya et al.			
		10/25/1988	Otouma et al.			
		12/20/1988	Schubring et al.			
	-	10/31/1989	Hasegawa et al.			
	****	10/31/1989	Riou et al.		•	

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	4.879.166	11/7/1989	Misuda et al. Kruse et al.			
		01/09/1990	Kruse et al.			
		02/13/1990	Tokita et al.			
 		02/20/1990	Morohoshi			·
		04/10/1990	Ogawa et al.			
···						
 	71 5	06/05/1990	Iwata et al.		-	
		05/07/1991	Ogawa et al.		<u> </u>	
-	THE TOTAL	08/20/1991	Akiya et al.		-	
	1 T	10/15/1991	Miller et al.			ļ
<u> </u>		10/15/1991	Kurabayashi et al.		<u> </u>	
	5,124,201	06/23/1992	Kurabayashi et al.		<u> </u>	
		01/19/1993	Kojima et al.			
		05/25/1993	Yasuda et al.			
		11/30/1993	Ogawa et al.		ļ	<u> </u>
	5,270,103		Oliver et al.		-	
		01/18/1994	Ohmori et al.		1	
		04/12/1994	Idei et al.			ļ
		05/24/1994	Malhotra et al.		1	
		06/14/1994	Kondo et al.			
	5,397,619	03/14/1995	Kuroyama et al.			
	5,437,925	08/01/1995	Macaulay et al.			
	5,459,502	10/17/1995	Sakaki et al.			
	5,463,178	10/31/1995	Suzuki et al.			
	5,472,757	12/05/1995	Ogawa et al.			
	5,478,631	12/26/1995	Kawano et al.			
	5,605,750	02/25/1997	Romano et al.			-
		08/26/1997	Nikoloff			
		08/26/1997	Stokes et al.		<u> </u>	
	5,700,582		Sargeant et al.			
		12/30/1997	Malhotra			
	· · · · · · · · · · · · · · · · · · ·	01/20/1998	Malhotra			
		03/10/1998	Fukushima et al.			
	5,747,146		Kashiwazaki et al.			
	5,755,929		Kuroyama et al.			<u> </u>
		08/25/1998	Momma et al.			
		12/08/1998	Yoshino et al.			
		12/22/1998	Yoshino et al.	1	†	
		01/05/1999	Okumura et al.	<u> </u>	†	
		01/05/1999	Chen et al.		1	
h		01/26/1999	Ohmura et al.			
		02/02/1999	Sargeant et al.	2 J		
		02/02/1999	Yoshino et al.			
		03/16/1999	Adair et al.	 		
		03/16/1999	Hiorns	+	 	
		03/16/1999	Kuroyama et al.		 	
		03/16/1999	Igarashi et al.			
		03/10/1999	Yang et al.			
		04/27/1999	Malhotra et al.			
		06/29/1999	Fryberg et al.	-	 	
		07/27/1999	Malhotra	- 	+	
		07/27/1999	Owatari et al.	 	†	
		07/27/1999	Yamane et al.	 	 	
<u> </u>				+	 	
		08/24/1999 10/05/1999	Chen et al. Kuroyama		ļ	

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	5,965,244	1	Tang et al-o			
		10/16/1999	DeMatte et a			<u> </u>
		01/04/2000	Chen et al.			ļ <u>.</u>
-		02/22/2000	Nitta			<u> </u>
		03/14/2000	Saito et al.			ļ
	6,074,793	1	Camp et al.			
	6,165,606	12/26/2000	Kasahara et al.			<u> </u>
FOREIGN	PATENT DOCUMENTS					
						Translation
	Document Number	Date	Country	Class	Subclass	
	51-47340	12/14/1976	Japan			
		03/15/1977	Japan			
		04/15/1980	Japan			
		11/18/1981	Japan			T
		11/18/1981	Japan			
	56-082,085	05/22/1982	Japan			
	57-107878	07/05/1982	Japan			
	57-107,879	07/05/1982	Japan			
	3,151,471	08/12/1982	Germany			
	57-157,786	09/29/1982	Japan			
	58-094,491	06/04/1983	Japan			
	2,129,333 B	11/19/1986	GB			
	JP 1160674 (Abstract only)	06/23/1989	Japan			
	439,153 A	07/31/1991	EPO			
	493,100 A1	07/01/1992	EPO			
	WO 95/00340	01/05/1995	PCT			
	JP 8072387 (Abstract		Japan			
	only)		TRO			
·	00730976/EP	09/11/1996	EPO			
	81 Exemplary Claims 743,193 A1	11/20/1006	EPO			
	JP 09272257 (Abstract					
	only)	10/21/1997	Japan			
10	803,374 A2	10/29/1997	EPO			
	2,334,684 A		GB			
	968,836 A2	01/05/2000	EPO			
	1,002,657 A1	05/24/2000	EPO			
	888,904 B1	03/21/2001	EPO			
			TS (Including Author, Title, Date, Pertinent P			
			The Chemistry of Silica Solubility, Polymeriza	ation, Colloid	and Surface	Properties, a
	Biochemistry." Ed. John W Technical Bulletin No. 102 Inc.; 1980.		Pitch Pacification White Paper Grades; Kenit	e [®] ; Celite [®] ; Ha	rborlite [®] ." Ed	l. World Mir
		75, and 78 Catio	nic Emulsions, The Next Generation of Alkalin	e Sizing Agent	s." Ed. Hercu	les, Inc; Dec
	Masao Takahashi, Teiji Sat	to and Masahide Iizusawa Indust	Ogawa; Research and Development Division rial Chemicals, Ltd.; April 23, 1990.	"Development	of Amorphoi	ıs Silica for I
			ectrapel Anti-Static Agent." Ed. Calgon Corpo	oration, Water	Managemen	t Division;
	"Basoplast" 335 D"; BASF	Corporation: In	ine 1994.			
			g Treatment." Ed. Hercules, Inc.; November			

	4 of 4					
	Martifin OL/107; May 1995.					
	"Polyox" Water-Soluble Resins"					
	Micahel C. Wilthiam. "Silica Pigments for ink printablility; Presented at the 1996 TAPPI Coating Conference, Nashville, TN, May 21, 1996.					
	"Kirk-Othmer Encyclopedia of Chemical Technology." Recycling, Oil to Silicon. Ed.John Wiley & Sons; Fourth Edition; Volume 21.					
	CIBA-GEIGY Technical Bulletin. "Fluorescent Whitening Agents for Paper."					
	CIBA-GEIGY Technical Bulletin. "Tinopal HST Liquid."					
	CIBA-GEIGY Technical Bulletin. "Tinopal SCP Liquid."					
	Paper Chemicals. MSA-150 Surface Size. Ed. Morton® Water Based Polymers.					
	Davison Silica Gels. "Typical Chemical and Physical Properties of Silica Gel."					
	"UniQ-Print® 8000 Unique Printability Enhancer" Sequa Chemicals, Inc. Ed. Sequa Chemicals, Inc.					
	D.M. Chapman, Ph.D. "Silica-Gel Coatings for Ink-Jet Media." Ed. Grace Davison.					
	"The Davison Family of Syloid" Silicas. "Ed. Grace Davison Chemical.					
	"Introduction to Silica Gel."					
	"Acronal® PR 8689 X". Ed. BASF Corporation. August 1995.					
Examiner	Date Considered					